

Analysis report

ENZ16254

Spectral Service



Laboratorium
für Auftragsanalytik GmbH

Spectral Service GmbH Post: box 560122 D-50996 Köln

Enzymotec Ltd.
Mr. Gai Ben-Dror
Hataasia 5 st.
Migdal HaEmeq 23106
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Fax: +49/(0)2236/96947-11
eMail: info@spectralservice.de
http: //www.spectralservice.de

Stabilized PS dispersion capsules
(capsules: 767,14 mg, 759,43 mg, 765,05 mg, 760,19 mg)

Analysis method: quantitative ^{31}P -NMR spectroscopy according to SAA043

$T = 0$

Instrument: Bruker Avance 300 MHz with autom. sample changer and BBI probe head

Internal standard: Triphenyl phosphate

Content [%]: 99,9 MW [g/mol]: 326,29

Initial weight test item [mg]: 3051,81

Initial weight Internal standard [mg]: 65,36

Sample Ident.: PS20D NF #26/5K 096628, Ch.-B.: #0505
1123

Lab. No:

Spectral Service Code: ENZ16254

Results from: 26.08.2005

| Phospholipid | Weight-% | Mol-% | MW [g/mol] |
|--------------|----------|--------|------------|
| PC | --- | --- | 770,0 |
| 1-LPC | --- | --- | 515,0 |
| 2-LPC | --- | --- | 515,0 |
| PI | 0,27 | 1,60 | 835,0 |
| LPI | --- | --- | 570,0 |
| PS | 14,05 | 87,77 | 797,2 |
| LPS | 0,19 | 1,84 | 517,0 |
| SPH | --- | --- | 770,0 |
| PE | 0,42 | 2,86 | 725,0 |
| LPE | --- | --- | 470,0 |
| APE | 0,57 | 2,84 | 990,0 |
| PG | --- | --- | 758,0 |
| DPG | 0,29 | 2,15 | 682,5 |
| PA | --- | --- | 685,0 |
| LPA | --- | --- | 430,0 |
| Other | 0,15 | 0,94 | 770,0 |
| Sum | 15,93 | 100,00 | |
| Phosphorus | 0,62 | | |

* = not observed, no signal assignment or < 0,01%
Limit of detection (S/N 10:1 Peak/Peak) = 0,5%

Cologne, 26. August 2005

Thorsten Buchen
Thorsten Buchen
(Food chemist)

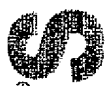
Spectral Service GmbH
Emil-Hoffmann-Str. 33
D-50996 Köln

Geschäftsführer:
Dr. Bernd Diehl
Dr. Werner Ockels

Gesellschaftssitz:
Köln HRB 20418
Gerichtsstand Köln

Dresdner Bank Brühl
Konto 3 889 198
BLZ 37080040

ENZ 16254


 Labortest
 für Aufgabenspezif. Arbeit

 Current Data Parameters
 NAME ENZ 16254
 EXPRID 10
 PROCNO 1

 F2 - Acquisition Parameters
 Date_ 20050823
 Time_ 15:50
 INSTRUM spect
 PRGNAME 5 mm BBO 1H-BB
 FIDPROC3 32768
 TD 8192
 SOLVENT COCD3
 NS 128
 DS 4
 SWH 1595.204 Hz
 FIDRES 0.132559 Hz
 AQ 2.7338011 sec
 RG 25842.8
 DW 23.400 usec
 DE 5.00 usec
 TE 300 K
 D1 10.0000000 sec
 D11 0.0000000 sec
 MCPRST 0.0000000 sec
 MCWRSK 0.0100000 sec

 ===== CHANNEL 1 =====
 NUC1 31P
 P1 9.00 usec
 PL1 0.00 dB
 SFO1 121.4905346 MHz

 ===== CHANNEL 2 =====
 CQDPRC2 90.16
 NUC2 1H
 P2 100.00 usec
 PL2 6.00 dB
 PL12 25.58 dB
 SFO2 200.1312006 MHz

 F2 - Processing Parameters
 SI 3.768
 SF 121.4905346 MHz
 WDW EM
 SSB 0
 LB 0.50 Hz
 GB 0
 PC 1.00

 -17.78
 -17.80

 0.04
 0.09
 0.18
 0.32
 0.51

 1.92
 2.01

25.26

-18 -19 ppm

2.26

66.86

2.21

3.41

-1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -11 -12 -13 -14 -15 -16 -17 -18 -19 ppm

Analysis report
ENZ16672-1

Spectral Service



Laboratorium
für Auftragsanalytik GmbH

Spectral Service GmbH Post box 560122 D-50986 Köln

Enzymotec Ltd.
Mr. Gai Ben-Dror
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eMail: Info@spectralservice.de
http: //www.spectralservice.de

(capsules: 788,32 mg, 764,59 mg, 765,33 mg, 773,35 mg)

Stabilized PS dispersion capsules 25 months
Analysis method: quantitative ^{31}P -NMR spectroscopy according to SAA043

Instrument: Bruker Avance 300 MHz with autom. sample changer and BBI probe head

Internal standard: Triphenyl phosphate

Content [%]: 99,7 MW [g/mol]: 326,29

Initial weight test item [mg]: 3091,59

Initial weight Internal standard [mg]: 61,43

Sample Ident.: NF 096628 - RT/3 months

Lab. No:

Spectral Service Code: ENZ16672-1

Results from: 08.11.2005

| Phospholipid | Weight-% | Mol-% | MW [g/mol] |
|--------------|----------|--------|------------|
| PC | --- | --- | 770,0 |
| 1-LPC | --- | --- | 515,0 |
| 2-LPC | --- | --- | 515,0 |
| PI | 0,24 | 1,41 | 835,0 |
| LPI | --- | --- | 570,0 |
| PS | 13,52 | 82,08 | 797,2 |
| LPS | 0,07 | 0,65 | 517,0 |
| SPH | --- | --- | 770,0 |
| PE | 0,16 | 1,05 | 725,0 |
| LPE | --- | --- | 470,0 |
| APE | 0,29 | 1,44 | 990,0 |
| PG | --- | --- | 758,0 |
| DPG | 0,17 | 1,18 | 682,5 |
| PA | 1,57 | 11,10 | 685,0 |
| LPA | 0,02 | 0,26 | 430,0 |
| Other | 0,13 | 0,83 | 770,0 |
| Sum | 16,18 | 100,00 | |
| Phosphorus | 0,64 | | |

*) = not observed, no signal assignment or < 0,01%
Limit of detection (S/N 10:1 Peak/Peak) = 0,5%

Cologne, 8. November 2005

Thorsten Buchen
(Food chemist)

Spectral Service GmbH
Emil-Hoffmann-Str. 33
D-50996 Köln

Geschäftsführer:
Dr. Bernd Diehl
Dr. Werner Ockels

Gesellschaftssitz:
Köln HRB 20416
Gerichtsstand Köln

Dresdner Bank Brühl
Konto 3 888 198
BLZ 37080040

400-Auriferous 400 MHz
 1.75
 0.10
 0.03
 0.20
 0.30
 0.51
 0.65

17.78
 17.80

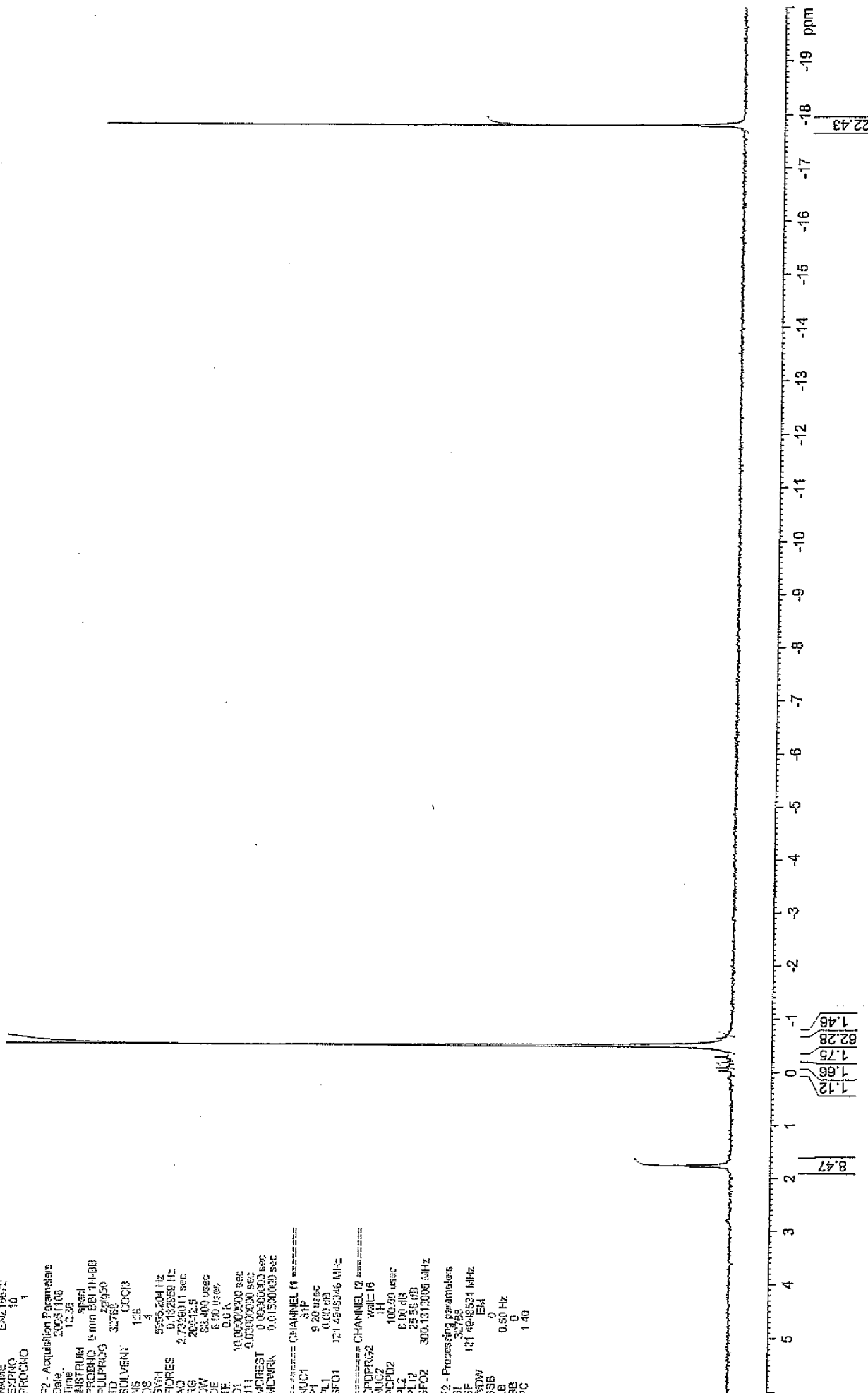
Current Data Parameters
 NAME ENZ 16672
 EXPNO 10
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20051108
 Time 12.36
 INSTRUM spect
 PROBHD 5 mm BBI 1H-GB
 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 128
 DS 4
 SWH 5555.204 Hz
 FIDRES 0.132359 Hz
 AQ 2.7326011 sec
 RG 20542.5
 DW 63.400 usec
 DE 6.00 usec
 TE 300.2 K
 D1 10.00000000 sec
 d11 0.03000000 sec
 bPCREST 0.00000000 sec
 MCWPRK 0.01500000 sec

===== CHANNEL f1 =====
 RUC1 31P
 P1 9.20 usec
 PL1 0.00 dB
 SFO1 121.4946346 MHz

===== CHANNEL f2 =====
 CDEPRG2 waltz16
 NUC2 1H
 PULPROG 1H
 PL2 0.00 usec
 PL3 0.00 dB
 PL4 0.00 dB
 PL5 0.00 dB
 SFO2 300.1313000 MHz

F2 - Processing parameters
 SI 32768
 SF 121.494634 MHz
 VSW 0.50 Hz
 LB 0.00 Hz
 GB 0.00 Hz
 PC 1.40



Analysis report
ENZ18342-2

Spectral Service



Laboratorium

für Auftragsanalytik GmbH

Spectral Service GmbH Post box 550122 D-50986 Köln

Enzymotec Ltd.

Mrs. Neta Scheinman

Hataasia 5 st.

Migdal HaEmeq 23106

Israel

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Fax: +49/(0)2236/96947-11

eMail: Info@spectralservice.de

http: [//www.spectralservice.de](http://www.spectralservice.de)

Stabilized B dispersion capsules

[2 whole capsules]

Analysis method: quantitative ^{31}P -NMR spectroscopy according to SAA043

Instrument: Bruker Avance 300 MHz with autom. sample changer and BBI probe head

12 months

Internal standard: Triphenyl phosphate

Content [%]: 99,7 MW [g/mol]: 326,29

Initial weight test item [mg]: 1556,17

Initial weight Internal standard [mg]: 20,35

Sample Ident.: Sample 29 - RT - 20/08/06

Lab. No:

Spectral Service Code: ENZ18342-2

Results from: 23.08.2006

| Phospholipid | Weight-% | Mol-% | MW [g/mol] |
|--------------|----------|--------|------------|
| PC | --- | --- | 770,0 |
| 1-LPC | --- | --- | 515,0 |
| 2-LPC | --- | --- | 515,0 |
| PI | 0,23 | 1,27 | 835,0 |
| LPI | --- | --- | 570,0 |
| PS** | 13,61 | 79,69 | 797,2 |
| LPS | 0,16 | 1,47 | 517,0 |
| SPH | --- | --- | 770,0 |
| PE | --- | --- | 725,0 |
| LPE | --- | --- | 470,0 |
| APE | 0,33 | 1,54 | 990,0 |
| PG | --- | --- | 758,0 |
| DPG | 0,28 | 1,93 | 682,5 |
| PA | 1,57 | 10,68 | 685,0 |
| LPA | 0,06 | 0,62 | 430,0 |
| Other | 0,46 | 2,80 | 770,0 |
| Sum | 16,70 | 100,00 | |
| Phosphorus | 0,66 | | |

*) = not observed, no signal assignment or < 0,01%
Limit of detection (S/N 10:1 Peak/Peak) = 0,5%

** calculated for the Na-salt

Cologne, 23. August 2006

TH

Thorsten Buchen
(Food chemist)

Spectral Service GmbH
Emil-Hoffmann-Str. 33
D-50996 Köln

Geschäftsführer:
Dr. Bernd Diehl
Dr. Werner Ockels

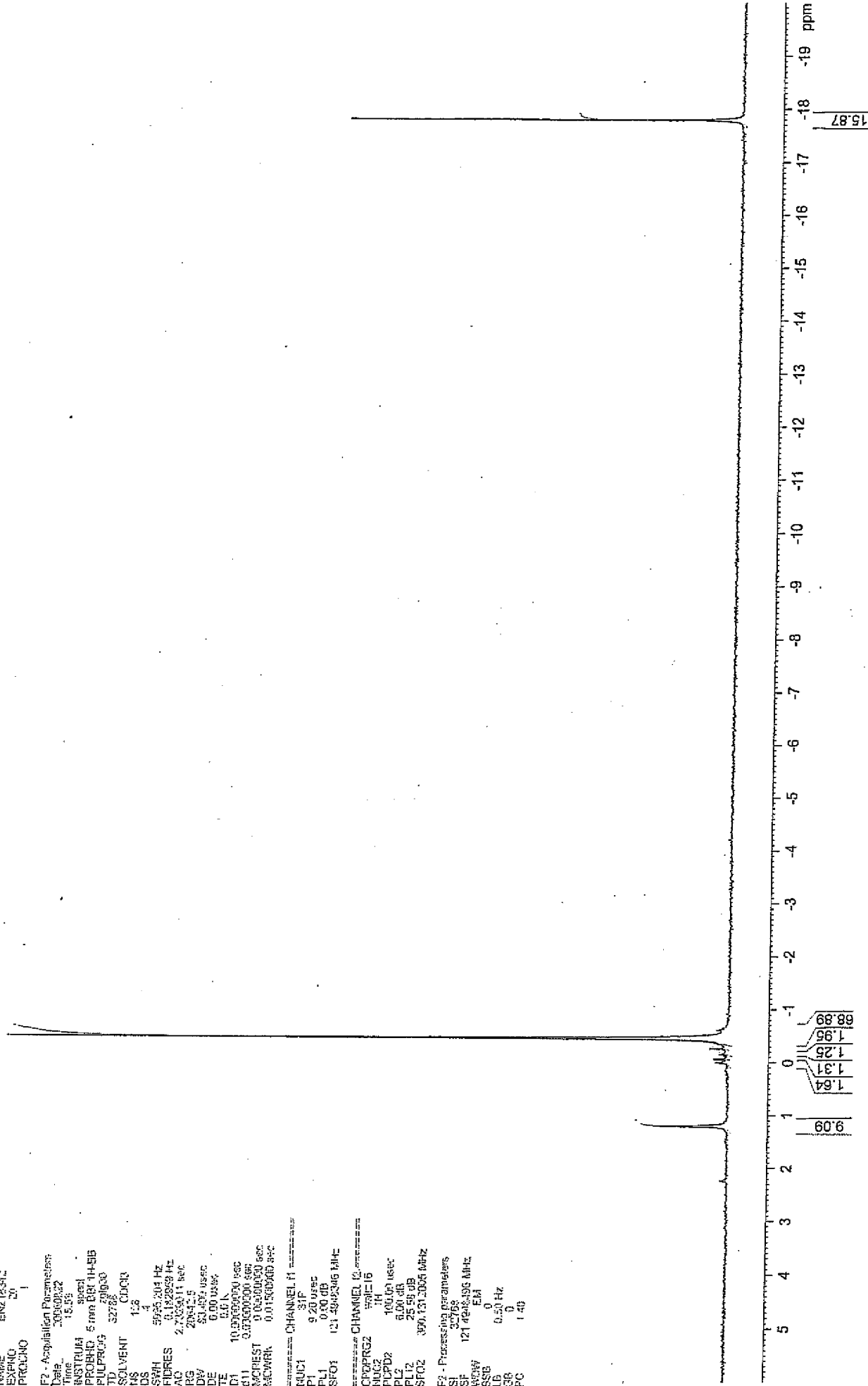
Gesellschaftssitz:
Köln HRB 20416
Gerichtstand Köln

Dresdner Bank Brühl
Konto 3 888 198
BLZ 37080040

Current Data Parameters
 NAME ENZ 18342
 EXPNO 20
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20060912
 Time 15:05
 INSTRUM spect
 PROBRD 5 mm BBI 1H-BB
 PULPROG zgpg30
 TD 32768
 SOLVENT CDCl3
 NS 152
 DS 4
 SWH 5926.304 Hz
 FIDRES 0.182893 Hz
 AQ 2.733911 sec
 RG 2042.5
 DW 83.4394 usec
 DE 0.00 usec
 TE 300.2 K
 D1 10.0000000 sec
 d11 0.0300000 sec
 ACQRES 0.0300000 sec
 MCWRA 0.0150000 sec
 ===== CHANNEL f1 =====
 NUC1 31P
 P1 9.20 usec
 PL1 0.00 dB
 SFO1 121.494246 MHz
 ===== CHANNEL f2 =====
 CPDPRG2 waltz16
 NUC2 1H
 P2 100.00 usec
 PL2 0.00 dB
 PL12 25.00 dB
 SFO2 399.1311055 MHz
 F2 - Processing parameters
 SI 32768
 SF 121.494246 MHz
 WDW EM
 SSB 0
 LB 0.50 Hz
 GB 0
 PC 1.40

1.19
 2.24
 0.00
 -0.07
 -0.16
 -0.27
 -0.46
 -0.61

17.78
 17.80



ENZ18342-2

*** Current Data Parameters ***

NAME : ENZ18342
EXPNO : 20
PROCNO : 1

*** Acquisition Parameters ***

D[1] : 10.000000 sec
NS : 128
O1 : -1.44 Hz
P[1] : 9.2 usec

PROBHD : 5 mm BBI 1H-BB Z-GRD

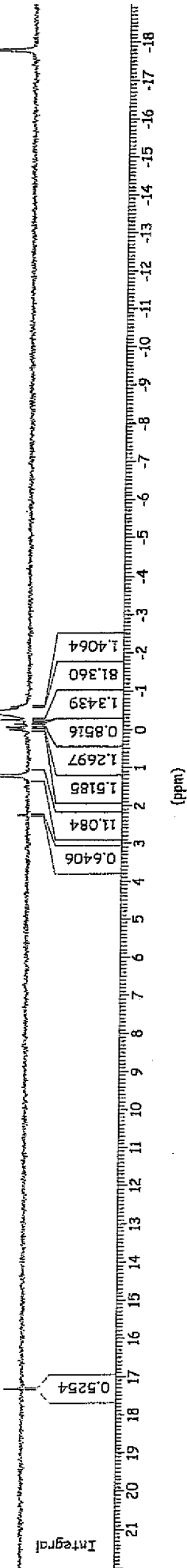
PULPROG : zgpg30
SW : 493453 ppm
SW_h : 5995.204 Hz
TD : 32768

*** Processing Parameters ***

GB : 0.000000
LB : 0.50 Hz
SF : 121.4948496 MHz

*** 1D NMR Plot Parameters ***

YScale : 90.94 %
Hz_cm : 180.68
AQ_time : 2.7328510 sec



Analysis report
ENZ19292-2

Spectral Service



Laboratorium
für Auftragsanalytik GmbH

Spectral Service GmbH Post box 560122 D-50996 Köln

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Fax: +49/(0)2236/96947-11
eMail: Info@spectralservice.de
http: //www.spectralservice.de

Ambient Con.

stabilized PS dispersion capsules

[2 whole capsules]

Analysis method: quantitative ^{31}P -NMR spectroscopy according to SAA043

17 months

Instrument: Bruker Avance 300 MHz with autom. sample changer and BBI probe head

Internal standard: Triphenyl phosphate

Content [%]: 99,7 MW [g/mol]: 326,29

Initial weight test item [mg]: 1565,65

Initial weight Internal standard [mg]: 20,43

Sample Ident.: Sample 29 (RT)

Lab. No:

Spectral Service Code: ENZ19292-2

Results from: 29.01.2007

| Phospholipid | Weight-% | Mol-% | MW [g/mol] |
|--------------|----------|--------|------------|
| PC | --- | --- | 770,0 |
| 1-LPC | --- | --- | 515,0 |
| 2-LPC | --- | --- | 515,0 |
| PI | --- | --- | 835,0 |
| LPI | --- | --- | 570,0 |
| PS** | 13,63 | 81,57 | 797,2 |
| LPS | 0,13 | 1,22 | 517,0 |
| SPH | --- | --- | 770,0 |
| PE | --- | --- | 725,0 |
| LPE | --- | --- | 470,0 |
| APE | 0,30 | 1,43 | 990,0 |
| PG | --- | --- | 758,0 |
| DPG | 0,25 | 1,72 | 682,5 |
| PA | 1,47 | 10,26 | 685,0 |
| LPA | 0,06 | 0,62 | 430,0 |
| Other | 0,51 | 3,18 | 770,0 |
| Sum | 16,35 | 100,00 | |
| Phosphorus | 0,65 | | |

*) = not observed, no signal assignment or < 0,01%
Limit of detection (S/N 10:1 Peak/Peak) = 0,5%
** calculated for the Na-salt

Cologne, 29. January 2007

Thorsten Buchen

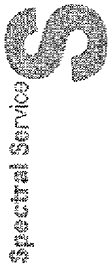
Thorsten Buchen
(Food chemist)

Spectral Service GmbH
Emil-Hoffmann-Str. 33
D-50996 Köln

Geschäftsführer:
Dr. Bernd Diehl
Dr. Werner Ockels

Gesellschaftssitz:
Köln HRB 20416
Gerichtsstand Köln

Dresdner Bank Brühl
Konto 3 888 198
BLZ 37080040



Labco/Gravimetric GmbH

Current Data Parameters
NAME ENZ15282
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070126
Time 20.01
INSTRUM spect
PROBHD 5 mm BBO1H4-BB
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 192
DS 4

SWH 5955.204 Hz
FIDRES 0.081480 Hz
AQ 5.4657246 sec
RG 29442.5
DW 53.400 usec
DE 6.00 usec
TE 300 K
D1 10.0000000 sec
d11 0.0300000 sec
ACQRES 0.0000000 sec
MCWPRK 0.0150000 sec

===== CHANNEL f1 =====
NUC1 31P
P1 9.20 usec
PL1 0.00 dB
SFO1 121.4941846 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
P2 100.00 usec
PL2 2.00 dB
PL12 25.00 dB
SFO2 300.1372035 MHz

F2 - Processing parameters
SI 32768
SF 121.4941846 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.40

ENZ 19292-2

-17.80
-17.78

-4.24

2.05
1.31
1.07
0.13
0.03
0.10
0.20
0.28
0.51
0.64

16.05

5 4 3 2 1 0 -1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -11 -12 -13 -14 -15 -16 -17 -18 -19 ppm

*** Current Data Parameters ***

NAME : ENZ19292
EXPNO : 20
PROCNO : 1

*** Acquisition Parameters ***

D[1] : 10.000000 sec
NS : 192
O1 : -1.44 Hz
P[1] : 9.2 usec

PROBHD : 5 mm 8B1 1H-BB Z-GRD

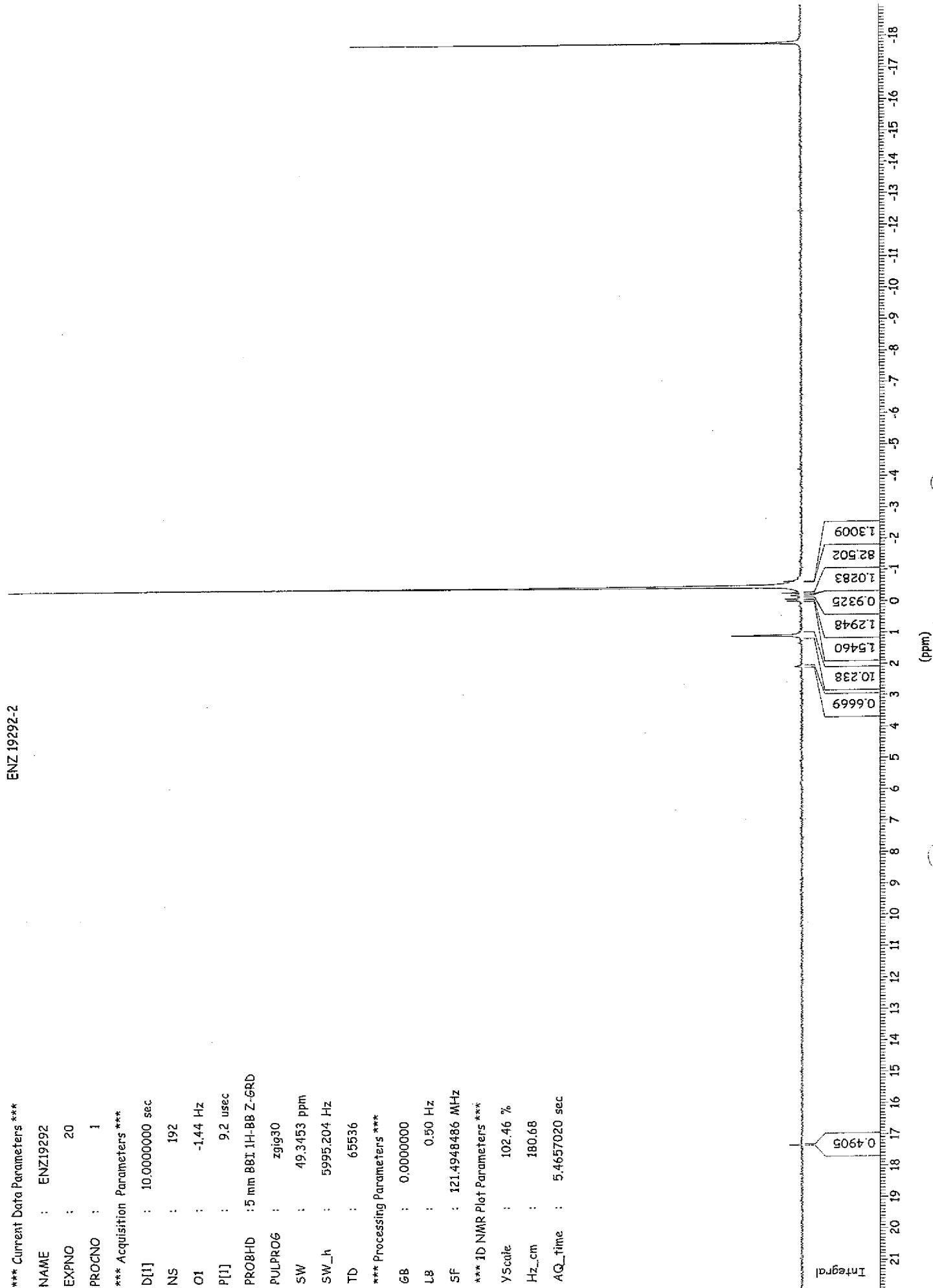
PULPROG : zgig30
SW : 49.3453 ppm
SW_h : 5995.204 Hz
TD : 65536

*** Processing Parameters ***

GB : 0.000000
LB : 0.50 Hz
SF : 121.4948486 MHz

*** 1D NMR Plot Parameters ***

YScale : 102.46 %
Hz_cm : 180.68
AQ_time : 5.4657020 sec



Analysis report**ENZ20680-2****Spectral Service**Laboratorium
für Auftragsanalytik GmbH

Spectral Service GmbH Post box 560122 D-50986 Köln

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Fax: +49/(0)2236/96947-11

eMail: Info@spectralservice.dehttp: [//www.spectralservice.de](http://www.spectralservice.de)*stabilized PS dispersion capsules*

[2 whole capsules]

Analysis method: quantitative ^{31}P -NMR spectroscopy according to SAA043*24 months*

Instrument: Bruker Avance 300 MHz with autom. sample changer and BBI probe head

Internal standard: Triphenyl phosphate

Content [%]: 99,7 MW [g/mol]: 326,29

Initial weight test item [mg]: 1537,82

Initial weight Internal standard [mg]: 10,12

Sample Ident.: 76-29 - ~~35°C~~ RT *full*

Lab. No:

Spectral Service Code: ENZ20680-2

Results from: 06.09.2007

| Phospholipid | Weight-% | Mol-% | MW [g/mol] |
|--------------|----------|--------|------------|
| PC | --- | --- | 770,0 |
| 1-LPC | --- | --- | 515,0 |
| 2-LPC | --- | --- | 515,0 |
| PI | 0,25 | 1,42 | 835,0 |
| LPI | --- | --- | 570,0 |
| PS** | 13,96 | 83,74 | 797,2 |
| LPS | 0,08 | 0,71 | 517,0 |
| SPH | --- | --- | 770,0 |
| PE | --- | --- | 725,0 |
| LPE | --- | --- | 470,0 |
| APE | 0,27 | 1,33 | 990,0 |
| PG | --- | --- | 758,0 |
| DPG | 0,21 | 1,46 | 682,5 |
| PA | 1,24 | 8,65 | 685,0 |
| LPA | 0,09 | 1,02 | 430,0 |
| Other | 0,27 | 1,67 | 770,0 |
| Sum | 16,37 | 100,00 | |
| Phosphorus | 0,65 | | |

*) = not observed, no signal assignment or < 0,01%
Limit of detection (S/N 10:1 Peak/Peak) = 0,5%

** calculated for the Na-salt

Cologne, 6. September 2007

Thorsten Buchen
(Food chemist)Spectral Service GmbH
Emil-Hoffmann-Str. 33
D-50996 KölnGeschäftsführer:
Dr. Bernd Diehl
Dr. Werner OckelsGesellschaftssitz:
Köln HRB 20416
Gerichtsstand KölnDresdner Bank Brühl
Konto 3 888 198
BLZ 37080040

*** Current Data Parameters ***

NAME : enz20680
 EXPNO : 20
 PROCNO : 1

*** Acquisition Parameters ***

D[1] : 10.000000 sec
 NS : 128
 O1 : -1.44 Hz
 P[1] : 9.2 usec

PROBHD : 5 mm BBI 1H-BB Z-GRD

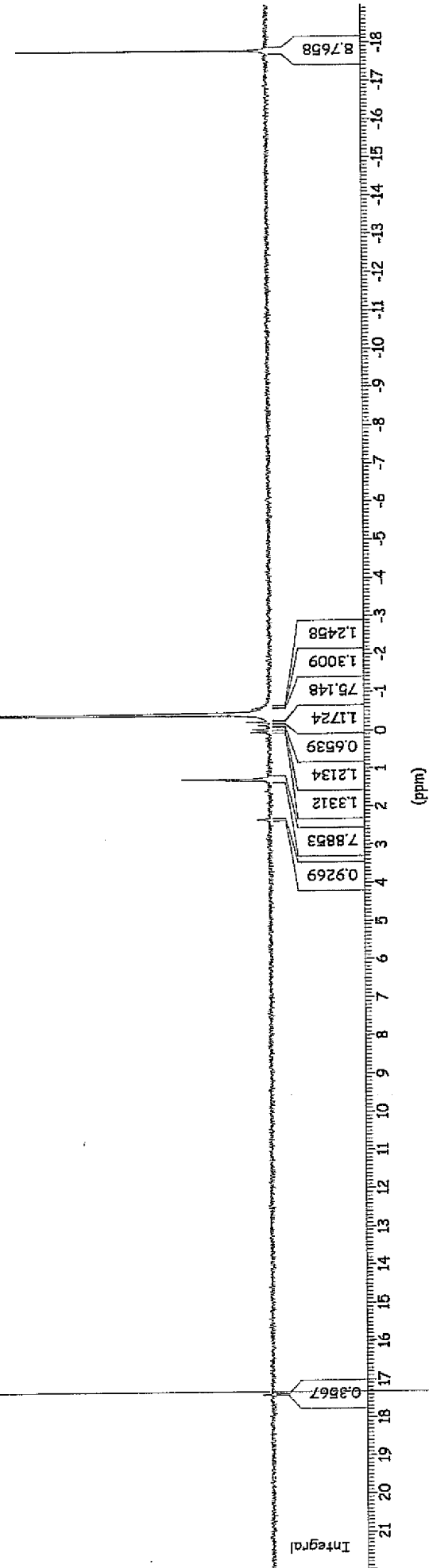
PULPROG : zgig30
 SW : 49.3453 ppm
 SW_h : 5995.204 Hz
 TD : 65536

*** Processing Parameters ***

GB : 0.0000000
 LB : 0.50 Hz
 SF : 121.4948479 MHz

*** 1D NMR Plot Parameters ***

Yscale : 102.14 %
 Hz_cm : 180.68
 AQ_time : 5.4657020 sec



Analysis report
ENZ16672-2

Spectral Service



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Laboratorium
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Stabilized PS dispersion capsules
(capsules: 761,89 mg, 780,48 mg, 776,05 mg, 776,46 mg)

Analysis method: quantitative ^{31}P -NMR spectroscopy according to SAA043

25 months

Instrument: Bruker Avance 300 MHz with autom. sample changer and BBI probe head

Internal standard: Triphenyl phosphate

Content [%]: 99,7 MW [g/mol]: 326,29

Initial weight test item [mg]: 3094,88

Initial weight Internal standard [mg]: 59,26

25
Sample Ident.: NF 096628 - 35 months

Lab. No:

Spectral Service Code: ENZ16672-2

Results from: 08.11.2005

| Phospholipid | Weight-% | Mol-% | MW [g/mol] |
|--------------|----------|--------|------------|
| PC | --- | --- | 770,0 |
| 1-LPC | --- | --- | 515,0 |
| 2-LPC | --- | --- | 515,0 |
| PI | 0,22 | 1,25 | 835,0 |
| LPI | --- | --- | 570,0 |
| PS | 13,46 | 81,95 | 797,2 |
| LPS | 0,09 | 0,82 | 517,0 |
| SPH | --- | --- | 770,0 |
| PE | 0,27 | 1,80 | 725,0 |
| LPE | --- | --- | 470,0 |
| APE | 0,30 | 1,48 | 990,0 |
| PG | --- | --- | 758,0 |
| DPG | 0,18 | 1,29 | 682,5 |
| PA | 1,46 | 10,38 | 685,0 |
| LPA | 0,04 | 0,48 | 430,0 |
| Other | 0,09 | 0,54 | 770,0 |
| Sum | 16,10 | 100,00 | |
| Phosphorus | 0,64 | | |

*) = not observed, no signal assignment or < 0,01%
Limit of detection (S/N 10:1 Peak/Peak) = 0,5%

Cologne, 8. November 2005

Thorsten Buchen
(Food chemist)

Spectral Service GmbH
Emil-Hoffmann-Str. 33
D-50996 Köln

Geschäftsführer:
Dr. Bernd Diehl
Dr. Werner Ockels

Gesellschaftssitz:
Köln HRB 20416
Gerichtsstand Köln

Dresdner Bank Brühl
Konto 3 888 198
BLZ 37080040



Labversand
An Auftragsnummer 00000

Current Date Parameters
NAME ENZ 16672-2
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters

Date_ 20051106
Time 12.55
INSTRUM spect
PROBHD 5 mm BBI TH-BB
PULPROG zgpg30
TD 298920
SOLVENT CDCl3
NS 128
DS 1
SWH 5555.204 Hz
FIDRES 0.1132559 Hz
AQ 2.7025911 sec
RG 25662.5
DW 53.000 usec
DE 0.000 usec
TE 300.2 K
D1 10.0000000 sec
d11 0.0300000 sec
MCREST 0.0000000 sec
MCWPR 0.0150000 sec

===== CHANNEL f1 =====

NUC1 31P
P1 9.20 usec
PL1 0.00 dB
SFO1 121.494345 MHz

===== CHANNEL f2 =====

CPDPRG2 waltz16
NUC2 1H
PCPD2 100.00 usec
PL2 0.00 dB
PL12 25.55 dB
SFO2 300.1312016 MHz

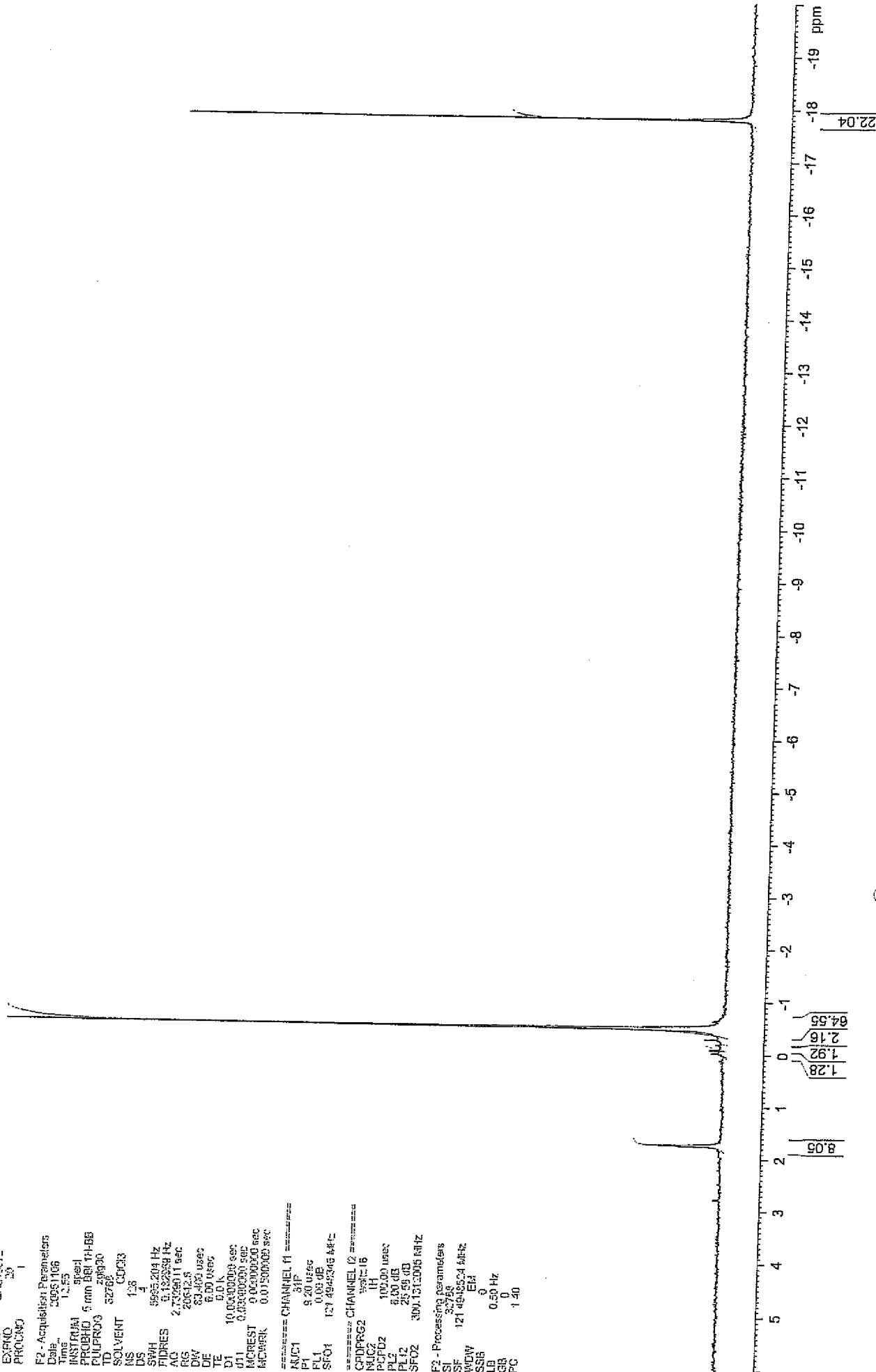
F2 - Processing parameters

SI 32768
SF 121.4943454 MHz
WDW EM
SSB 0
LB 0.50 Hz
GB 0
PC 1.40

0.02
0.08
0.19
0.29
0.50
0.63

1.73

-17.78
-17.80



Analysis report
ENZ18342-3

Spectral Service



Laboratorium
für Auftragsanalytik GmbH

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Accelerated Con.

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http: [//www.spectralservice.de](http://www.spectralservice.de)

Stabilized PS dispersion capsules

[2 whole capsules]

Analysis method: quantitative ^{31}P -NMR spectroscopy according to SAA043

12 months

Instrument: Bruker Avance 300 MHz with autom. sample changer and BBI probe head

Internal standard: Triphenyl phosphate

Content [%]: 99,7 MW [g/mol]: 326,29

Initial weight test item [mg]: 1566,47

Initial weight Internal standard [mg]: 20,22

Sample Ident.: Sample 29 – 35°C - 20/08/06

Lab. No:

Spectral Service Code: ENZ18342-3

Results from: 23.08.2006

| Phospholipid | Weight-% | Mol-% | MW [g/mol] |
|--------------|----------|--------|------------|
| PC | --- | --- | 770,0 |
| 1-LPC | --- | --- | 515,0 |
| 2-LPC | --- | --- | 515,0 |
| PI | 0,25 | 1,57 | 835,0 |
| LPI | --- | --- | 570,0 |
| PS** | 13,28 | 86,13 | 797,2 |
| LPS | 0,14 | 1,37 | 517,0 |
| SPH | --- | --- | 770,0 |
| PE | --- | --- | 725,0 |
| LPE | --- | --- | 470,0 |
| APE | 0,29 | 1,53 | 990,0 |
| PG | --- | --- | 758,0 |
| DPG | 0,23 | 1,76 | 682,5 |
| PA | 0,61 | 4,59 | 685,0 |
| LPA | 0,09 | 1,07 | 430,0 |
| Other | 0,30 | 1,99 | 770,0 |
| Sum | 15,19 | 100,00 | |
| Phosphorus | 0,60 | | |

*) = not observed, no signal assignment or < 0,01%
Limit of detection (S/N 10:1 Peak/Peak) = 0,5%
** calculated for the Na-salt

Cologne, 23. August 2006

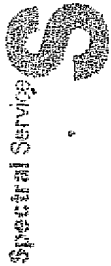
Th Buchen
Thorsten Buchen
(Food chemist)

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Geschäftsführer:
Dr. Bernd Diehl
Dr. Werner Ockels

Gesellschaftssitz:
Köln HRB 20416
Gerichtsstand Köln

Dresdner Bank Brühl
Konto 3 888 198
BLZ 37080040



Leontien
de Aufregemalys, Breda

ENZ 18342-3

Current Data Parameters
NAME ENZ18342
EXPNO 30
PROCNO 1

F2 - Acquisition Parameters
Date_ 20060322
Time 16.26
INSTRUM spect
PROBHD 6 mm BBL1H-BB
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 126
DS 4
SWH 5965.204 Hz
FIDRES 0.162550 Hz
AQ 2.7333411 sec
RG 2564.5
DW 63.400 usec
DE 6.00 usec
TE 300.2 K
D1 10.0000000 sec
S11 0.0300000 sec
ACQRES 0.0300000 sec
MORPH 0.0150000 sec

===== CHANNEL f1 =====
NUC1 31P
P1 9.20 usec
PL1 0.00 dB
SFO1 121.4941855 MHz

===== CHANNEL f2 =====
CPDPRG2 zgpg30
NUC2 1H
PCPD2 100.00 usec
PL2 8.50 dB
PL12 25.50 dB
SFO2 300.1311095 MHz

F2 - Processing parameters
SF 121.4941855 MHz
WDW EM
SSB 0
LB 0.50 Hz
GB 0
PC 1.40

1.18
0.17
0.01
-0.05
-0.15
-0.25
-0.45
-0.60

2.23

1.46
1.27
1.14
1.06
72.84

3.81

0.89

5 4 3 2 1 0 -1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -11 -12 -13 -14 -15 -16 -17 -18 -19 ppm

16.94

*** Current Data Parameters ***

NAME : enz18342
 EXPNO : 30
 PROCNO : 1

*** Acquisition Parameters ***

D[1] : 10.0000000 sec
 NS : 128
 O1 : -1.44 Hz
 P[1] : 9.2 usec

PROBHD : 5 mm BBI 1H-BB Z-GRD

PULPROG : zgpg30

SW : 49.3453 ppm

SW_h : 5995.204 Hz

TD : 32768

*** Processing Parameters ***

GB : 0.0000000
 LB : 0.50 Hz
 SF : 121.4948485 MHz

*** 1D NMR Plot Parameters ***

YScale : 99.31 %
 Hz_cm : 180.68
 AQ_time : 2.7328510 sec

ENZ18342-3

